Preliminary Technical Data

CTV-BASIS-PROGRAM

46 VLE 8160 BH

Supplier Code	KFA
Article Code	05
EAN	40 13833-62793 7
/ Order No.	G.BJ 12-46
Color	glossy black
Remote control	TP7-YF1
IM-Languages	ES, FR, PT, D, GB, NL, EE
Approbations	CE
Destination	France, Spain

Visible 46" / 117 cm

DISPLAY

	Panel		: 46" / 117 cm LED - Display
	3-D		: Yes
	Wide-screen format		: Yes
	Peak Luminance Ratio		: 65%
	Dynamic contrast		: Dynamic Contrast Plus
/	Picture Perfection rate		: 400 Hz
	Viewing angle	approx. °	: 178 vertical / 178 horizontal
/	Physical display resolution	max. pixel	: WUXGA 1920 x 1080 (full HD)

PICTURE

/	Motion Picture Improvement	: Yes
	Motion Adaptive Deinterlacing	: Yes (3D DeInterlacer)
	Full HD	: Yes
	HD-TV 1080p	: Yes
	Line Flicker Reduction	: Yes
	Digital Color Transition Improv. (DCTI)	: Yes
	Digital Combfilter	: Yes (3D)
	Digital Luminace Transition Improv. (DLTI)	: Yes
	Picture Noise Reduction	: Yes
	Preset picture modes	: Yes, user, vivid, natural, movie, sports
	Aspect ratios (Format switching)	: Auto (WSS), 4:3 / 16:9 / 14:9 / LetterBox / Subtitle / Panorama
	PAT: Split screen (PICTURE + TEXT)	: Yes
	Picture freezing	: Yes
	Zoom with point function	: Yes
	Auto 16:9 selection via Scart	: Yes
	Sharpness control	: Yes
	Blue Background	: Yes

CHASSIS

	TV-Chassis	: TP
	Tuner	: PLL frequency synthesizer tuning
	Scaler	: Sapphire 13+
	Keyboard	: 7 keys: menue, ± for programme, ± for volume, source, stand-by

ELECTRONIC

	Stand by indicator	: Yes, blue LED
/	EPG (Electronic Program Guide)	: Yes, 7 days via DVB-T, DVB-C
	Manual & autom. labeling of prog.	: Yes
	Programable off timer	: Yes
	Programable on timer	: Yes
	Intelligent chanel search (Zapping funct.)	: Yes
	Program Edit	: Yes
	Program memory TV/AV (opt.)	: 100 Analog / 1000 T / 1000 C / AV
	Teletext/Fasttext/Toptext	: Yes / yes / yes
	Teletext options	: 1000 pages
	Childlock	: Yes
	Menue languages OSD	: 24 languages, D, GB, F, I, E, P, NL, DK, S, FIN, N, TR, GR, PL, CZ, SK, SLO, H, RUS, RO, BG, HR, LT,EE
	OSD-style	: OEM-style with Grundig look

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ELECTRONIC

	Service mode	: Yes
	Game mode	: Yes, presets (user changeable) for sound and picture in HDMI-, Component- and PC-mode
	Hotel mode	: Simple hotel mode possible via service adjustment
	Digi Link (HDMI CEC 1.3)	: Yes

INTERNET APPLICATIONS

	Facebook	: Yes
	Twitter	: Yes
	Picasa	: Yes
	Flickr	: Yes
	Youtube	: Yes
	dlna	: Yes
	V-Tuner	: Yes
/	Funspot	: Yes
/	tripadvisor	: Yes
/	Aphoteken	: Yes
/	Artzt suche	: Yes
/	Bongusto	: Yes
/	Laufen.de	: Yes
/	Yogamour	: Yes
/	Automotorsport	: Yes
/	Reuters	: Yes
/	Bild.de	: Yes
/	Worldweatheronline	: Yes
/	goal 7/24	: Yes
/	Acetrax	: Yes
/	Viewster	: Yes
/	Flixter	: Yes

TUNING

	Autom. Tuning System with country selection	: Yes, full automatic sorting
	Frequency Based Auto Search	: Yes
	Automatic Micro-search	: Yes
	Manual fine tuning	: Yes
	Direct chanal selection	: Yes
	Direct frequency selection	: For cable tuning can be done by entering the frequency (MHz) in digital search menu
	PAL/SECAM/BG/DK/I/L'/L	: Yes
	NTSC-Playback via Scart (3,58/4,43)	: Yes
	Cable TV / Hyperband (S1-S41)	: Yes

AUDIO

	Mono/Stereo/Nicam	: Yes / Yes / Yes
	AV Stereo	: Yes
	Loudspeaker	: 2 wide band at the front side
	SRS	: Yes, TruSurround HD
	Dolby digital	: Yes
	Subwoofer	: Yes
	Balance Adjustment	: Yes
	AVL (Audio Volume Level)	: Yes
	Equalizer	: Yes, 5 Band
	Space Sound Effect	: Yes
	Audio mode	: Yes, cinema, music, sport, speech, user
	Audio amplifier	: 2 x 10/20 W nominal/music power (R/L)

USB part

	Recording	: Yes
	Divx + HD	: Yes
	Repeat	: Yes
	File browser	: Yes
	Video file resolution (max)	: 1920 x 1080
	Supported files	: .m4a, .wma, .aac, .jpg, .jpe, . bmp, .png, .mov, divx, .mpg, .mpe, ,vob, .dat, .trp, .ts, .avi, .mp4, .mkv, ,div
	Supported subtitles	: SRT, SSA, ASS, SMI, Video SUB

DVB reception

	System characteristics	:
	Fully compliant to	: EN 300 744 & revided NorDig II spec (regarding DVB-T front end performance)

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DVB reception

	Autmatic/manual channel search	: Yes / yes - ATS type sorting & LCN type sorting
	EPG (SI based)	: Yes
	7 Day Electronic Program Guide	: Yes
	now/next	: Yes
	scheduled	: If broadcasted
	Exdended Event Info	: If broadcasted
	Short Event Info	: If broadcasted
	TV/Radio programs	: 1000
	OSD languages	: Same as analogue languages
	Teletext VBI insertion	: Yes, or decoding
	VPS - VBI insertion	: Yes, PDC based
	Program table	: Yes, full automatic sorting
	Factory station list	: Yes
		:
	DVB-T Front end	: Yes
	Tuner inputs (Hyperband)	: 1
	Input frequency (MHz) / Loop through	: 177 - 862 VHF & UHF / -
	Input level / Impedance	: -80 to 20/dBm / 75 Ohm
	Modulation	: COFDM 2/8 QPSK 16/64 QAM
	FEC	: 1/2, 2/3, 3/4, 5/6, 7/8
	Hierarchical modulation	: Hierarchical - non hierarchical
		:
	DVB-C Front end	: Yes
	Input frequency (MHz)	: 47 - 862 VHF & UHF
	Imput level / Impedance	: 47 - 70 dbµV / 75 Ohm
	Demodulation / Symbol rate Ms/s	: QAM 16/32/64/128/256 demodulation support (EN 300 429) 4,0....7,2 Msymbols/s
		:
		:
	Common Interface	: Yes
	CI +	: Yes
		:
		:
	Video Decoder	:
	MPEG profiles	: MP@ML, MP@HL, MPEG4 AVC H.264 HP@L4.0
	Resolution	: 576i, 576p, 720p, 1080i, 1080p
	OSD colors	: Fitting to TV-OSD
	Picture formats	: Auto (WSS), 4:3 / 14:9 / 16:9 / Panorama / Letterbox / Subtitle
		:
	Audio Decoder	:
	Profiles	: MPEG 4 , MPEG 2 layer I & II
	AC 3 Output	: SP/DIF
	Modes	: Mono, Dual Mono, Stereo, Joint Stereo
		:
	Software	:
	Service information processing	: Dynamic PMT
	DVB subtitling	: Yes
	Over air download (OTA)	: DVB enhanced profile
	Navigator	: Yes, via menu
	Last station memory	: Yes, from stand-by, as TV
	Favourite mode	: Yes, 4x free
	Mute function	: Yes
	Swap function	: Yes

POWER SUPPLY / CABINET

	Power voltage	: 230 V, 50 Hz; in accordance to IEC 65
	Range of regulation	: 140 V - 265 V
	Integrated supply	: Yes
/	Energy class	: A
/	Power consumption	: 82 Watt, 0,50 Watt Standby, 120 kWh annual on-mode energy consumption
/	Cabinet (WxHxD, cm) / Weight	: 108,3x66,6x4,3 cm / 108,3x71,5x24,4 cm with stand / approx. 25,0 kg

REAR PANEL CONNECTIONS

	Euro-AV-Socket AV1	: Yes, Full wired
	S-Video	: Yes, (Hosiden)
	Camera-AV	: Yes, 3x Cinch socket in
	YUV input / progressive	: Yes, Video-in: 3 x Cinch, Audio-in: 2 x Cinch

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REAR PANEL CONNECTIONS

PC-input	: Yes, (WXGA)
PC-Audio in	: Yes
HDMI	: Yes, 4x
HD ready including HDCP	: Yes, via HDMI
Common Interface	: Yes, 1 slot
Headphones	: Yes, 3.5 mm jack
Digital Audio out optical (SPDIF)	: Yes
USB	: Yes, 2 x USB 2.0
Antenna for terrestial reception	: 1 x Coaxial-socket for TV-tuner-in, according to DIN 45325
Power supply plug	: Yes

SUPPLIED ACCESSORIES

/ Remote control (incl. battery)	: Yes, TP 7 black & Comfort Remote
Power cord	: Yes (grounded)
Instruction manual	: Yes
Wall fixture	: Prepared for VESA standard adaptor 400 x 400
Stand	: swivel type glass stand
Warranty info	: Yes
Cleaning tissue	: Yes

MEMO: